



Curriculum for the Department of Computer Science

2021-2022

FIRST YEAR

1 st Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE31003	Algorithm Design and Programming	2	2				5.0	3	C
2	CUE68001	Calculus	2				2	5.0	3	C
3	CUE31005	Computer Organization	2	1				5.0	3	C
4	CUE31004	Discrete Structure	2				1	5.0	3	C
5	CUE61001	General English	2		6			5.0	5	B
6	CUE31001	Computer Skills		4				5.0	2	B
TOTAL			10	7	6	-	3	30.0	19	-

2 nd Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE31011	Programming Language	2	2				5.0	3	C
2	CUE31012	Logic Design	2	2				5.0	3	C
3	CUE61002	Academic English	2		6			5.0	5	B
4	CUE82001	Academic Debates	3					5.0	3	B
5	CUE66001	Kurdistan Studies	3					5.0	3	B
	CUE66002	Kurdish Language								
6	CUE31014	Computer Applications		4				5.0	2	B
TOTAL			12	8	6	-	-	30.0	19	-



SECOND YEAR

3 rd Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE31021	Object Oriented Programming	2	2				6.0	3	C
2	CUE31023	Data Structures	2	2				6.0	3	C
3	CUE31022	Database Systems	2	2				5.0	3	C
4	CUE31024	Computer Networks	2	2				5.0	3	C
5	CUE31025	Systems Analysis and Design	2					4.0	2	C
6	CUE31026	Communication Skills	2					4.0	2	S
TOTAL			12	8	-	-	-	30.0	16	-

4 th Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE31031	Application Development	2	2				6.0	3	C
2	CUE31032	Distributed Database Systems	2	2				5.0	3	C
3	CUE31033	Web Design	2	2				5.0	3	C
4	CUE31034	Network Administration	2	2				5.0	3	C
5	CUE31035	Statistical Data Analysis	2	2				5.0	3	C
6	CUE31036	Software Engineering	2					4.0	2	C
TOTAL			12	8	-	-	-	30.0	17	-



THIRD YEAR

5 th Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE31046	Web Programming	2	2				6.0	3	C
2	CUE31041	Data Science	2	2				5.0	3	C
3	CUE31042	Artificial Intelligence	2	2				5.0	3	C
4	CUE31044	Operating Systems	2	2				5.0	3	C
5	CUE31045	Computer Graphics	2	2				5.0	3	C
6	CUE31043	Computer Architecture	3					4.0	3	E
TOTAL			13	8	-	-	-	30.0	18	-

6 th Semester										
No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CUE31056	Dynamic Web Development	2	2				6.0	3	C
2	CUE31051	Internet of Things	2	2				5.0	3	C
3	CUE31057	Machine Learning	2	2				5.0	3	E
	CUE31052	Expert System								
4	CUE31054	Distributed Operating Systems	2	2				5.0	3	C
5	CUE31055	Image Processing	2	2				5.0	3	C
6	CUE31053	Research Methods	2				1	4.0	3	S
TOTAL			12	8	-	-	1	30.0	18	-



FOURTH YEAR

7th Semester

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CSC411	Operating Systems I	2	2					3	
2	CSC412	Computer Networks I	2	2					3	
3	CSC413	Information Security I	2	2					3	
4	CSC414	Mobile Programming I	2	2					3	
5	CSC415	Multimedia	2	2					3	
6	CSC416	Graduation Project I	-	-					-	
TOTAL			10	10					15	

8th Semester

No.	Code	Module Title	CL (hr/w)	L (hr/w)	P (hr/w)	Clin. (hr/w)	T (hr/w)	ECTS	Units	Type
1	CSC421	Operating Systems II	2	2					3	
2	CSC422	Computer Networks II	2	2					3	
3	CSC423	Information Security II	2	2					3	
4	CSC424	Mobile Programming I	2	2					3	
5	CSC425	Image Processing	2	2					3	
6	CSC426	Graduation Project II	0	4					2	
TOTAL			10	14	-	-	-	-	17	-